WHAT IS CLAIMED IS:

1. A compound having the structure:

5 in which

n is 1 to 6;

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

10 R¹, R², and R³ are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

X is

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or

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

5 2. The compound according to claim 1 in which

n is 1 or 2;

R¹, R², and R³ are hydrogen,

G is -OCH₃,

Q is a C₁ to C₄ alkyl,

$$X$$
 is $\begin{bmatrix} O & O & O \\ II & O & C \\ R^1 & \text{or} & R^1 \end{bmatrix}$; and

10 x

Z is a branched or linear C_{18} to C_{36} chain, or a siloxane.

3. A compound having the structure:

15 in which

n is 1 to 6;

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

20 R¹, R², and R³ are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

5 Y is

N R1

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Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

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4. The compound according to claim 3 having the structure:

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in which C_{18} , C_{24} , and C_{36} , represent a mixture of isomers of linear or branched chain alkyl groups having C_{18} , C_{24} , and C_{36} carbon atoms,

respectively.

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5. A compound having the structure:

in which

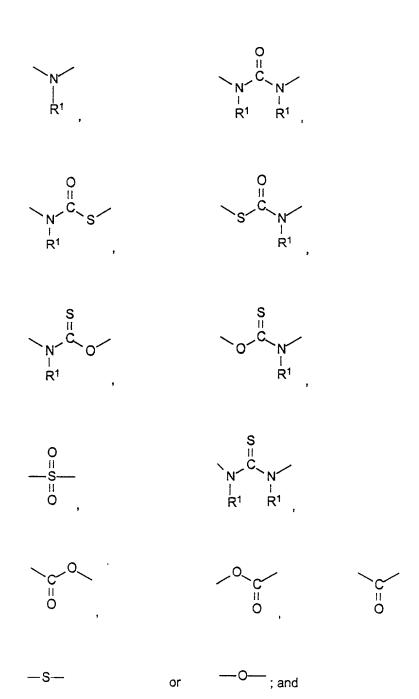
5 n is 1 to 6;

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R¹and R² are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

15 Q is an alkyl group having 1 to 12 carbon atoms;



Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

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6. The compound according to claim 5 in which n is 1 or 2;

R¹, R², and R³ are hydrogen,

G is -OCH3,

Q is a C₁ to C₄ alkyl,

5 Z is a branched or linear C_{18} to C_{36} chain, or a siloxane.

- 7. A curable adhesive composition comprising a compound according to any one of claims 1 to 6.
- A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides.
- A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and a thermally conductive filler.
 - A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and an electrically conductive filler.

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- 11. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and a nonconductive filler.
- 12. A curable adhesive composition comprising a compound according to any one of claims 1 to 6, at least one copolymerizable electron acceptor

compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and a thermally conductive filler.

- 13. A curable adhesive composition comprising a compound according to
 5 any one of claims 1 to 6, at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and an electrically conductive filler.
- 14. A curable adhesive composition comprising a compound according to
 10 any one of claims 1 to 6, at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and a nonconductive filler.
- 15. A semiconductor package in which a silicon chip is adhered to a
 15 substrate with an adhesive comprising a compound according to any one of claims 12 to 14.

18. A compound having the structure:

$$R^1$$
 Ar
 Q
 Z
 R^3
 $G_{0,1,2}$

in which

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R¹, R², and R³ are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above, and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

Z is an alkyl group, a siloxane, a polysiloxane, a C₁ to C₄ alkoxyterminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

19. A compound having the structure:

$$\begin{bmatrix} R^1 & R^2 \\ R^3 & G_{0,1,2} \end{bmatrix} Z$$

in which

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R¹, R², and R³ are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R¹ and R² are as described above, and R⁴ is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

20. The compound according to claim 19 having the structure:

21. The compound according to claim 19 selected from the group consisting

of:

and

22. A compound having the structure:

$$\begin{bmatrix} R^2 \\ R^1 \\ R^3 \end{bmatrix} = \begin{bmatrix} R^2 \\ Ar \\ G_{0,1,2} \end{bmatrix}$$

in which

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

 R^{1} , R^{2} , and R^{3} are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above, and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

$$S \xrightarrow{R^1} O$$
 or $-S$: and

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

23. A compound having the structure:

in which

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R¹and R² are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxyterminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

24. The compound according to claim 23 selected from the group consisting of:

$$O = C_{36} - C_{36}$$

- 25. A curable composition comprising a compound according to claim 18 and a conductive or nonconductive filler.
- 26. A curable composition comprising a compound according to claim 19 and a conductive or nonconductive filler.

- 27. A curable composition comprising a compound according to claim 22 and a conductive or nonconductive filler.
- 28. A curable composition comprising a compound according to claim 23 and a conductive or nonconductive filler.